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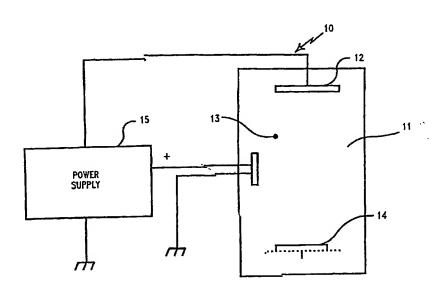
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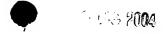
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SPUTTER TARGET MONITORING SYSTEM



(57) Abstract: A sputtering target monitoring sytem (20) for monitoring the status of a sputtering source target (22) during the sputtering process. The collection of data is initiated based on measured voltages in the sputtering source target (22), whereas the arcing count is determined based on current spikes or interruptions to the current in the sputtering source target (22) during the sputtering process. The real time data collected during the sputtering process is recorded and displayed in table or graphical format at any time during the sputtering process. Thus, problems in the sputtering process, or in the sputtering source (22), including an approaching end of life of the target may be easily ascertained. Alarms, messages or other indicators may be used to alert operators to problems or conditions during the sputtering process.





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International application No.

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A CV ASSIDIO ANION OF CURVICON MARRIED			
A. CLASSIFICATION OF SUBJECT MATTER			
1PC(7) : C23C 14/34			
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B. FIELDS SEARCHED			
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U.S. : 204/192.13, 298.03, 298.08			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
NONE			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate of the relevant passages	Relevant to claim No.
Y	US 6,110,328 A (SHIMIZU et al) 29 August 2000 (2		
•	Column 7 lines 55-68; Column 8 lines 1-19.	2.00.2000), Column / Imes 17-24;	1-15
Y	US 5,993,615 A (ABRY et al) 30 November 1999 (3	0.09 1999) Abstract: Column 3 lines	1-15
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